

The Egyptian Academy
of Scientific Research&Technology
Council of Mineral Resources
Specialized Maps Committee



The Ministry of Industry & Technology Egyptian Geological Survey &Mining Authority

NH 35

NH 36

Explanatory Note

The Metallogenic Map of Egypt

Scale 1:1,000,000

NG 35

NG-36

Shorthe Egyptian Geological No.

at 35

Cairo - 2001

## Fig 2: Simplified Legend For The Precambrian Terrane (After Takla & Hussein, 1995) UNCONFORMITY CONTINENTAL MARGIN AND INTRAPLATE ROCKS: No, Ta, Sn. W. Ma, Alkali feldspar granites (G3 granites - Younger Granites) Be. F Calc-alkaline, weakly deformed granitoids (G2 granites - Younger Granites) Ba, U, Th Ti, Fe (V) Gabbro-peridotite intrusive (Younger Gabbro) Molasse sediments (Hammamat Clastics) h ď Cu. Au (Perphyry) Andesite-dacite-rhyolite (Dokhan Volcanics) œ d Imp. por Σ Diorite-tonalite-granodiorite (G1 granites -Older Granites) а ⋖ O OPHIOLITIC MELANGE AND ISLAND ARC ASSOCIATION: ш (BIF), (Cu-Pb-Zn), Au. Mainly metasedimentary matrix comprising blocks of meta-ultramafites, 00 Cr, Talc. Mag, Asb, Ver. metagabbros, mafic metavolcanics, and felsic metavolcanics. Emerald, Corundun 0 OLD CONTINENTAL CRUST: -Gneisses, migmatites, amphibolites, and high grade schists. Gneisses, (BIF)

Fig 3

## Simplified Legend For Phanerozoic Sedimentary Rock Units

	EXPLANATION	METALLOGENY
	QUATERNARY	METALLOGERT
_ T	Holocene	
	Qsd Qns Qsb Qon	
	Sand duries Nile sit, Sabkhah and Chier Nile sediments:  cultivated salt crust graves, and conglornerate, with eard and sitt	K, Na, WS.
Q foods	Undivided Quaternary - wadi, playa and spring deposits in the south Western Desert; gravels in patches topping middle -latitudes limestone plateaux; raised coral reefs and gravel terraces along the Red Sea coastal zone, Gulf of Suez, and Gulf of 'Aqabah, beach placers along the northern coast, alluvial placers in wadis	" Eg. Alab" -Trav Beach and alluvial placers, silca glass
Qc ushiya	Pleistocene and younger - Coastal bars of onlitic timestone west of Alexandria, with main development in the Arabs Guif area.	"Eg. Alab" - Trav
Tpl left	TERTIARY  Plipoene - Oolitic limestone along the coastal areas of the north Western Desert; sandstone with chalky limestone and gypsum north of Wadi an Natrun; porcelaneous limestone with chert in Cairo-Suez district; limestone and coguinal beds along the northern part of the Nile Valley; red brecoa with limestone lithroclasts, conglomerate and finer stilicidastics along the Nile in Upper Egypt; silicidastics, bioclastics and reefal beds along the Red Sea coastal zone.	Po & Zn, Mn, Ba
C Tn Selvar	Post Miocene (undifferentiated) - Light-coloured, continental to lacustrine sandstone with root marks; yellow sittatone and limestone with borings and gastropods type locality foot hills of the southwest tip of all Cattarah depression. To the south it is patchy but occasionally extensive, and truncating Crefaceous to Eccene rocks.	
O Lun Northwerd	Upper Miccane - Sandstone and/or arenaceous carbonates in Cairo - Suez area.  Blockstars and limestone along the Red Sea coast.	
0 !	Mirtin Marana Tarra	
Z TI	Middle Middle Regenc carbonates with mart and shale in the Western Deserr calcareous get and sandy ameatone interfugency with gypeum Radian area, needs Carbonate as shale and sandatione carbonate layers along Red Sea coastal groups and carbonate and shale intercalations around the Guill of Solid collections. See coastal stretch Evaporates probably sho Upper	Pb & Zn, S,⁴, Mn, Ba, Gyp Sr
Tml	She coast.  She coast.	7

-	B. C. Santa	
Tmu	Upper Migdenië - Sandstone anvivor arenamous carbonnass in Camp - Susz area, shootselics and limesons slong the Red Ses posit.	
Tmm	Middle Miocene - Biogenic carbonates with mart and shale in the north Western Desent, excernous gril and sarroly Investore hilleringsong with grouwn in Alagash was real of carbonates, share, mart and surrelation carbonate layers, langt the Real Sea coast shorton.	Ph & Zn, S,K, Mn, Ba, Gyp,Sr
Tml	Lower Michael and Mary selection and a hardware and able interculations around the Guillo Sude; in petitives along the distance are stall system Evaporities proceedy extend emol Upp Michael  Lower Michael — Manny selectistics with manor campiness, in the north Western Desert, course sand and grower west of Cetro as additione conglorisation, grifly or cyster limestone, and shallo around the Guill of Suez; fangiomerates, and eshalle around the Suez; fangiomerates are such as the	97
	Undifferentiated Micoene.	st.
Tm		
Tv	O'go - Miocerie - Bassés and dolerites. Pandotte	pendol
Tog	Oligocopie - Clastics and gravel sheers in the Caro - Sunt, and Caro all Fayyum - st 8 sharpyst serectives and on typ of Econem plates is well of the Nile, conglowerate, plateone, procedure-locul amostone in central. Suriair conglowerate in all Carasys - Safegati street, singulacious rimestone, at the foor of as Sallum scap in the Western Despir	Kaol, Fe. Och, "Eg. Mab" - Trav, WS.
-	Ligoer Foogos - Calcarecta - and the control of the	Bent
Teu	Middle Forting a his remainded Secretary and Australian China.	Fe, "Eg, Alab" + Trav, Mm
Tem	to its east and west	Fe, Ba, Och
Telm	Lower to Middle Eccang - allocous and deloned limestone with minor day in the middle- latitudes plateau areas in the Eastern and Western Deserts	
Tel	Lower Eocene - Limestons with chert bands and concretions, and variable shalls content on both sides of the Nile in Opper Egypt, in the south Western Desert and in central Street.	Bent
Tp	Paleocens - Shake and applications timestone, more calculations at top, widely distributed in the south Westom Deternt, the file yalley, the Field Sea coast and Sines. Carbonates predominate in the southern most Western Detern and weep of all Faratrah Ossas.	
	2007210000	
rc	© Ring complexes (mostly skaline syenites).	
Kus	Cretaceous (Senonian), includes  Cretaceous (Senonian), includes  Il Careparian and Massimirity in Sisocasics and carbonates with phosphate beds in the south Western Desert, hitle Valey in Upper Egypt and Red Sea coest, chalk in horth Egypt.	Syenite P
Kv	b) Consistin and Santonian - Carbonate-billoclastic sequence with zones of colect frontions in Aswan area and Wad Chris, fossiliterous modelone in northern part of Egypt.	Fa
ž.	Wadi Natash Voicanics - Dominantly alkaline basal, andexite and trachyle	
Suc 3	Conomanian and/or Turonian - Predominantly carbonates in norther Sinal angilocous limestone in al Jalalah sina: allociastics and coquinoid limestone in Wedi Cinic, Ruhatile allociastics in southern Egypt, sendetone in Awar and eact of Leks Nestranea.	Fe, Keol, WS
KI	Lower Cretacogous - Sendetone and calcarnous actidatore with positic ironstone in contrar final; kalandic sandstone interenal and southern Sine and west of the	Fe, WS.
G- Panga	Lower Crotaceous-Jurassic? - Sendstones and conglomerates, In some areas of southern Egypt.	
j Š	JURASSIC - Alternating fluviable and matter sticilassics, immatore, coal seems, and altiallow matter carbonates, topped by dente carbonate bads with abundant chan in northern Sina.	Coal, Fe, Kaol.
Ir	TRIASSIC - Clastic-carbonate complex with anhydrite and gypeum milerculations at northeastern Sinai	
ZU	LIPPER PALEOZOIC - Sticlesace with dolones and chooked Investore, along the northeastern alopes of Northern statesh, probably of Permian age, Uppermost usr of red-coloured cases and this manus internations, in Northern Asialah, Yead Anibet and central Sinas, probably of Permo - Yris asia sign.	ws.
zc	CARBONIFEROUS - Dolombic sinsetions hosting intergraves deposits over lan by pricellabota, occasionally carbonarous, in central Shat, silicolation and provided impostro-west of the Get of Sergia sincinstition and chapto bounders overfail by carbonaceous classics. In Jacks III "Uwaynat Abu Ra's since at the south Western Desert	Mn, Cu, U, Coal